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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,044	10/19/2005	Joseph P Kennedy JR.	GRA26 006	4672
7590 08/10/2007 Mark C Comtois			EXAMINER	
Duane Morris Suite 700			PHAN, DAO LINDA	
1667 K Street NW			ART UNIT	PAPER NUMBER
Washington, DC 20006			3662	
		•		
	•		MAIL DATE	DELIVERY MODE
			08/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/531,044	KENNEDY ET AL.
Office Action Summary	Examiner	Art Unit
	Dao L. Phan	3662
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated will expire SIX (6) MONTHS from cause the application to become ABANDONE.	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133)
Status		
Responsive to communication(s) filed on 19 Oct This action is FINAL . 2b) ☑ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims	, , ,	
4) Claim(s) 1-57 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 6-54,56 and 57 is/are allowed. 6) Claim(s) 1-5 and 55 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or		
•		
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 12 April 2005 is/are: a) Applicant may not request that any objection to the confidence of the sequence of the sequence	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 	have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e

Application/Control Number: 10/531,044

Art Unit: 3662

The disclosure is objected to because of the following informalities: On lines 3, 5,
 and 9 of paragraph 002, the SN #s are missing. Appropriate correction is required.

- 2. Young-Fang Chen, Michael D. Zoltowski "Joint Angle and Delay estimation of DS-CDMA communication systems with Application to Reduced Dimension Space-time 2D Rake Receivers", IEEE Transactions on Signal Processing; and Paulraj, A.J., Papadias, C.B., "Space-Time Signal Processing for Wireless Communications: A Survey" Information System Laboratory, Stanford University cited in Information Disclosure Statement dated 9/29/05 are missing the dates (with at least the years).
- 3. Claims 1-5, 55 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claim 1, lines 5-6, "updating the geo-location estimate by recursive analysis of the bias error to thereby refine the geo-location estimate", and claim 55, lines 5-7, "updating the geo-location estimate by recursive analysis of the bias error to thereby identify bias measurements" are indefinite because these are read as single means claims.

- 4. Claims 6-54, 56-57 are allowed.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao L. Phan whose telephone number is (571)272-6976. The examiner can normally be reached on M-F 9:00-5:30.

Application/Control Number: 10/531,044

Art Unit: 3662

Page 3

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (571)272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAO PHAN PRIMARY EXAMINER